

# METHOD OF SETTING MICROPHONE, METHOD FOR PROCESSING SOUND SIGNAL, AND DEVICES FOR INPUTTING, RECORDING AND PROCESSING SOUND SIGNAL, USING THESE METHODS AND VOICE RECOGNITION PROCESSING DEVICE AND RECORDING MEDIUM RECORDING PROGRAM FOR PROCESSING SOUND SIGNAL

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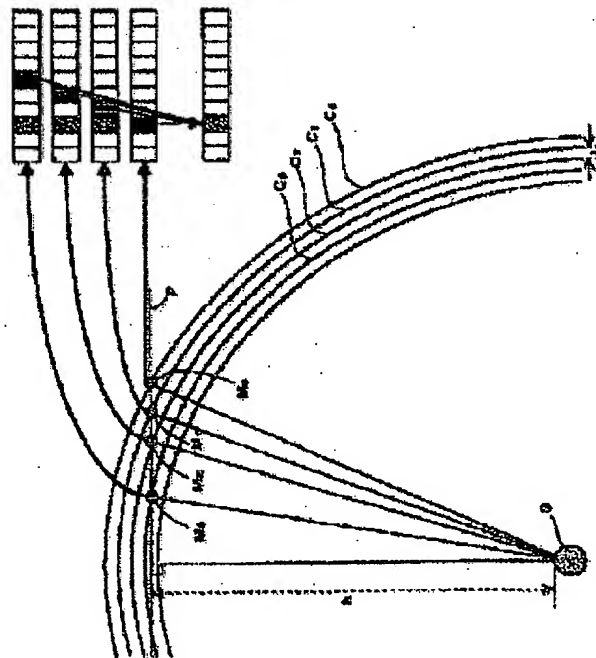
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## Abstract of JP2001042888

**PROBLEM TO BE SOLVED:** To reduce the operation quantity for arranging phases of sound signals. **SOLUTION:** Concentric spheres whose respective radii change by  $\lambda$  which is a moving distance of sound during a sampling period  $T$  by making a sound source  $S$  as the center are virtually set. Respective microphones  $M0, M1, M2$  and  $M3$  are mounted on the basis of peripheral surfaces of the spheres  $C0, C1, C2$  and  $C3$  selected from among the concentric spheres. The output signal of every microphone  $Mn$  is sampled with a fixed sampling period, thereafter, is delayed by the sampling number  $(n)$  corresponding to the difference  $n \cdot \lambda$  of sphere radius between the sphere  $Cn$  which is the setting reference of the respective microphones and the sphere  $C0$  which is the setting reference of the microphone  $M0$  which is the most remote from the sound source  $S$ . Further, by summing the delayed sampling values and the sampling values at the present time of the microphone  $M0$ , the sound signal from the sound source  $S$  is extracted.



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